



NS MGEL

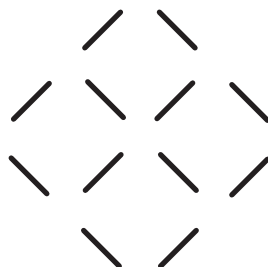
ALL NATURAL - NO PEG'S, NO PROPYLENE
CARBONATE, NO ISODODECANE, NO PARABENS
MULTI-FUNCTIONAL RHEOLOGICAL ADDITIVE



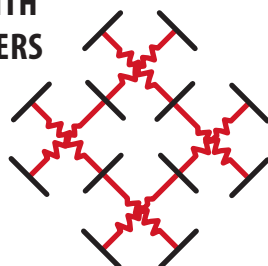
CLAY
PLATELETS



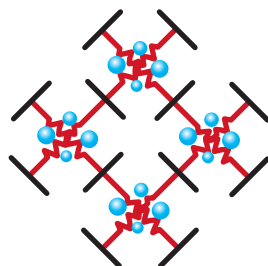
SHEAR



ACTIVE WITH
EMULSIFIERS



WATER



NS MGEL

- NS MGel is a multi-functional, self-emulsifying gel created to convey multiple benefits primarily to emulsion systems.
- MGel is based on a combination of quaternized clays and silicone gels or hydrocarbon gels & emulsions.
- MGel is used to create stable water/oil-silicone emulsions because emulsifiers are an integral part of the polar activation system.
- MGel ingredients (components) meet the high standards required by the natural products market.

NS MGELS WHAT ARE THEY?

- NS MGels are emulsifier activated quaternized clays manufactured using non-mechanical milling which allows for a more efficient shearing of clays before activation.
- Once shearing is complete, activation is initiated using a conventional polar activator as well as a polymeric emulsifier.
- Emulsifier is a part of the gel network matrix, resulting in emulsification and stabilization simultaneously when used in an emulsion.
- Self-emulsifying and self thickening
- Low viscosity/thin W/O emulsions
- Very stable at elevated temperature
- Finished products do not experience phase transition
- Non-greasy
- Natural looking
- Silky, soft application
- Long wearing
- Cold process
- Short batch cycle time

SPF 30 LOTION

Phase	Ingredient	Description	%
A	MGel	Self-emulsifying/thickening gel	12.0
A	NS TerEster Tri-Cap NS	Tricaprylin	20.0
A	Solar Cover ZnCCTG	Micro Zn dispersed in CCTG	15.0
A	NS Boost	SPF booster: mica & silica	3.0
B	Water		43.0
B	MgSO4	Electrolyte/Water softener	1.0
B	NS PhytoMoist	TremellaFuciformis/Betaine/Glycerin/Water	5.0
C	Nexcide PB	Preservative	1.0

DIRECTIONS

- Add Phase A to beaker, mix then homogenize to disperse.
- Mix Phase B in a beaker.
- Add Phase B to Phase A in five parts, homomixing to full incorporation after each part.
- Homomix for 5 minutes on medium speed.
- Add preservative slowly in parts.

GENERAL GUIDELINES:

- Decrease the surface tension of the water phase with a salt.
- Add the water phase in several parts, starting with the smallest amount first. Fully incorporate each part before adding the next.
- Add the preservative slowly, in parts, at the end.

INCI NAME

Coco-Caprylate/Caprate (and) Disteardimonium Hectorite (and) Polyglyceryl-3 Diisostearate (and) Polyclycerol Polyricinoleate



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